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species to this substratum is by no means a simple one. In the first place, there is great need of more accurate data regarding the exact distribution of such "calcicoles" and of the exact nature and chemical reaction of the soils in which they are growing. As an example of the need of such precautions it is shown that "calcifuges" may and do occur on soils usually considered calcareous, but on account of leaching there is really no calcium in the soil in contact with the plant during its youthful and critical stages. It is further shown that complexity is added to the problem by the secondary characters usually accompanying calcareous soils, such as their comparative freedom from toxic products of decay, their usually low water-holding capacity, the more abundant development of their soil fauna, and the influence of calcium upon the absorption of other elements such as potassium.

The entire discussion is a thoughtful consideration of the various aspects of the problems concerned, and with the rather extensive bibliography is a good survey of the entire field.—GEO. D. FULLER.

Forest trees of Hokkaido, Japan.—Recognizing in the rapid changes taking place in Hokkaido a menace to the existence of its forests and its timber supplies, the government has appreciated the importance of a scientific knowledge of its trees as a basis for increased attention to forestry. As a result of the investigations thus prompted, there is being issued a most attractive set of beautifully colored plates, accompanied by descriptive text in Japanese and English.²⁰ The plates depict the foliage, flowers, fruit, buds, seeds, and seedling stages, one plate being devoted to each species. The three fascicles now issued include *Taxus cuspidata*, *Abies sachalinensis*, *A. Mayriana*, *A. Wilsonii*, *Picea Glehnii*, *P. jezoensis*, *Larix dahurica*, *Pinus pentaphylla*, *P. pumila*, and *Thujaopsis dolabrata*. The finished work will comprise not less than 85 species.—GEO. D. FULLER.

Notes on Conifers.—Two botanical memoirs by CHURCH²¹ will be of interest to teachers of botany, especially those most concerned with morphology and forestry. These papers are used at Oxford in class work, making it unnecessary for the students to take lecture notes, and, at the same time, furnishing very complete outlines for laboratory work. Both papers lay emphasis upon features which can be seen without a compound microscope, although the microscope is used for some details of the life history. The first paper is

²⁰ MIYABE, KINGO, and KUDO, YUSHUN, *Icones of the essential forest trees of Hokkaido*. 10.5×15 inches. Sapporo. Pub. by the Hokkaido government. Fasc. 1. 1-15. pls 1-4. 1920; Fasc. 2. 16-26. pls. 5-7. 1920; Fasc. 3. 27-37. pls. 8-10 1921.

²¹ CHURCH, A. H., *Elementary notes on Conifers*. Botanical Memoirs. no. 8. Oxford University Press. pp. 32. 1920.

———, *Form factors in Coniferae*. Botanical Memoirs. no. 9. Oxford University Press. pp. 28. 1920.